



HYGIENETECH

Hygiene Technologies International, Inc.

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April 21, 2011

State of California
Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21104001.1

Attention: David Gau

Regarding: Fungal Growth Remediation Monitoring and Exposure Assessment Surveys
M Floor Supply Fans 3 & 4 Room

Dear Mr. Gau:

On March 30 through April 2, 2011, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored various activities involving cleaning, isolation of chilled water pipe insulation, and fungal growth remediation of the chilled water pipe insulation in the Supply Fans 3 & 4 Room on the M Floor of the State of California Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. Fungal growth remediation was performed by JLS Environmental Services, Inc. (JLS) under the supervision of LaCroix Davis, LLC (LCD), an industrial hygiene consulting firm contracted with the State of California Department of General Services (DGS). Following the completion of all such activities and upon the reactivation of supply fans, HygieneTech collected air samples at various locations throughout the building in order to determine airborne fungi exposure potentials for building occupants on April 1, 3, and 4, 2011.

During the period from March 30 to 31, 2011, JLS personnel performed cleaning activities which involved vacuuming with equipment having high efficiency particulate air (HEPA) filtration and wet wiping of all the surfaces in the Supply Fans 3 & 4 Room, including the exterior surfaces of the supply fans. Additionally, JLS personnel isolated all chilled water pipe insulation materials with plastic sheeting and tape. Prior to the isolation of chilled water pipe insulation with plastic sheeting and tape, critical barriers (isolation with plastic sheeting and tape) were established at all the necessary surfaces including the coils and supply fan openings. Supply fans in the area were turned off prior to commencement of all such activities and were turned on following the receipt of successful air sampling data in the affected areas by LCD. All activities including isolation of chilled water pipe insulation and subsequent cleaning of surfaces was conducted within controlled negative pressure containments that were monitored with the use of manometers. Those control measures were utilized so that dispersion of airborne spores was limited to the enclosed area.

On April 1 and 2, 2011, JLS personnel performed additional remediation in the affected areas involving the chilled water pipe insulation materials and also performed additional cleaning activities including HEPA vacuuming and wet wiping of all the surfaces within the containment. At that time, HygieneTech observed and documented the removal of all the fungal growth-contaminated chilled water pipe insulation materials and the decontamination of remaining materials including but not limited to chilled water pipes, valves, and proximate drywall. Supply fans were deactivated prior to commencement of all such activities and were then reactivated following the receipt of successful air sampling data by LCD and upon reinsulating the chilled water pipes. All remediation work performed on April 1 and 2 was conducted within controlled negative



pressure containments that were monitored with the use of manometers. Those control measures were utilized so that dispersion of airborne spores was limited to the enclosed area.

Air samples were collected using a Zefon brand Bio-Pump™ equipped with Zefon Air-O-Cell™ cassettes. Surface samples were collected using cellophane tape segments that were affixed to microscope slides. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The analytical data with supporting and background information appear in the enclosed Tables 21103001-36 and 21104001-1.

As shown in Table 21103001-36, the surface assessment data collected on March 30, 2011 indicated fungal growth involving *Acremonium* and *Cladosporium*, on chilled water pipe insulation surfaces. Following the completion of the fungal growth remediation activities on April 2, visual inspections were performed within Supply Fans 3 & 4 Room. By observation, all gross quantities of fungal growth had been removed from the fungal growth remediation area.

The airborne spore count data presented in Table 21104001-1 showed mostly common fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, other colorless, smuts, and *Stemphylium*, with basidiospores predominating. In the indoor areas tested, the data showed low airborne concentrations of mostly common fungal spores that included one or more of the following: ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, other brown, rusts, smuts, and/or *Stachybotrys*. The distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. Note that although a low but detectable level of *Stachybotrys* was found in the 24th Floor Room 2408 sample collected in the morning of April 1, subsequent air sampling in that area on the evening of April 1 indicated only low levels of basidiospores. The airborne *Stachybotrys* detected was likely an anomaly or originated from the outdoors. Overall, these data were considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time the surveys were performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the survey.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: State of California
Board of Equalization
450 N Street
Sacramento, California 95814

TABLE 21103001-36
SURFACE FUNGAL GROWTH POTENTIALS
ABATEMENT MONITORING
M FLOOR
SACRAMENTO, CALIFORNIA
MARCH 30, 2011

SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
21103001-36 TL01SM	Supply Fans 3 & 4 Room; chilled water pipe adjacent to northwest column; about center; approximately 12 feet above floor; from vertical surface of insulation paper	Light	Very few	4+ <i>Cladosporium</i> (spores, hyphae, conidiophores) 1+ <i>Acremonium</i> species (spores, hyphae)	None	Fungal growth
21103001-36 TL02SM	Supply Fans 3 & 4 Room; chilled water pipe at eastern end; approximately 10 feet north of southern partition; approximately 20 feet above floor; from vertical surface of insulation paper	Light	Very few	4+ <i>Cladosporium</i> (spores, hyphae, conidiophores)	None	Fungal growth

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: State of California
Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21104001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 1, 3, and 4, 2011

Page 1

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM01OUT	21104001-1 TM02	21104001-1 TM03	21104001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	1 st Floor; Cafeteria; dining area; bay three along northern partition wall; about center; approximately five feet above floor/Normal dining activities	3 rd Floor; about three feet east of Column K22; approximately five feet above floor/Normal office activities	5 th Floor; Conference Room 503; entry area; approximately five feet above floor/Normal office activities
DATE	04-01-11	04-01-11	04-01-11	04-01-11
START/STOP	06:48:00/06:53:00	06:54:00/06:59:00	07:03:00/07:08:00	07:10:00/07:15:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Arthrimum				
Ascospores	960	160		
Aureobasidium				
Basidiospores	38,000	1,100	160	210
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	470	110		
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora				
Oidium				
Other brown			13	
Other colorless	40			
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13		13	
Stachybotrys				
Stemphylium				
Torula				
Background Particulate*	3+	1+	2+	1+
Hyphal Fragments	<13	<13	<13	13
TOTAL**	39,000	1,400	190	210

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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TABLE 21104001-1
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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 1, 3, and 4, 2011

Page 2

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM05	21104001-1 TM06	21104001-1 TM07	21104001-1 TM08
SAMPLING LOCATION/ACTIVITIES	11 th Floor; high rise elevator lobby; southern entrance area; about center; approximately five feet above floor/Normal office activities	14 th Floor; Column M18 area; Cubicle 15 entryway; approximately five feet above floor/Normal office activities	18 th Floor; Column M22 area; Cubicle 95 entryway; approximately five feet above floor/Normal office activities	22 nd Floor; Column K20 area; Cubicle 87 entryway; approximately five feet above floor/Normal office activities
DATE	04-01-11	04-01-11	04-01-11	04-01-11
START/STOP	07:18:00/07:23:00	07:26:00/07:31:00	07:35:00/07:40:00	07:46:00/07:51:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores	210	53	110	110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		110		
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)				27
Stachybotrys				
Stemphylium				
Torula				
Background Particulate*	1+	1+	1+	1+
Hyphal Fragments	<13	<13	<13	<13
TOTAL**	230	160	110	130

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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TABLE 21104001-1
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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 1, 3, and 4, 2011

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM09	21104001-1 TM10OUT	21104001-1 TM101OUT	21104001-1 TM102
SAMPLING LOCATION/ACTIVITIES	24 th Floor; Room 2408; about center; approximately five feet above floor/Sampling activities only	Outdoors; southwestern corner of building; approximately five feet above ground/Normal outdoor activities	Outdoors; southwestern corner of building; approximately five feet above ground/Normal outdoor activities	24 th Floor; Room 2408; about center; approximately five feet above floor/Sampling activities only
DATE	04-01-11	04-01-11	04-01-11	04-01-11
START/STOP	07:54:00/07:59:00	08:13:00/08:18:00	17:10:00/17:15:00	17:30:00/17:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			27	
Arthrimum				
Ascospores		850	320	
Aureobasidium				
Basidiospores	210	9,800	3,800	110
Bipolaris/Drechslera group			13	
Botrytis		13	53	
Chaetomium				
Cladosporium	53	110	800	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium		93		
Other brown			40	
Other colorless		27	13	
Penicillium/Aspergillus types			370	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		53	13	
Stachybotrys	13			
Stemphylium		13		
Torula				
Background Particulate*	2+	2+	3+	1+
Hyphal Fragments	<13	13	93	<13
TOTAL**	280	11,000	5,500	110

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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Sacramento, California 94279

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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 1, 3, and 4, 2011

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM11OUT	21104001-1 TM12	21104001-1 TM13	21104001-1 TM14
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	1 st Floor; high rise elevator lobby; about center; approximately five feet above floor/Sampling activities only	5 th Floor; northern hallway; about five feet north of elevator lobby; approximately five feet above floor/Sampling activities only	8 th Floor; Column N21 area; Cubicle 162; about center; approximately five feet above floor/Sampling activities only
DATE	04-03-11	04-03-11	04-03-11	04-03-11
START/STOP	19:47:00/19:52:00	19:54:00/19:59:00	20:05:00/20:10:00	20:16:00/20:21:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores	210	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53		53	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Background Particulate*	2+	1+	1+	1+
Hyphal Fragments	40	<13	13	<13
TOTAL**	290	53	67	53

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Board of Equalization
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Sacramento, California 94279

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AIRBORNE TOTAL FUNGI RESULTS
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM15	21104001-1 TM16	21104001-1 TM17	21104001-1 TM18
SAMPLING LOCATION/ACTIVITIES	14 th Floor; Conference Room 1406; about five feet south of entry door; approximately five feet above floor/Sampling activities only	3 rd floor; area between Column K20 and J20; about center; approximately five feet above floor/ Normal office activities	22 nd Floor; southern hallway; about five feet south of elevator lobby; approximately five feet above floor/ Normal office activities	18 th Floor; Conference Room 1806; about center; approximately five feet above floor/ Normal office activities
DATE	04-03-11	04-04-11	04-04-11	04-04-11
START/STOP	20:28:00/20:33:00	06:51:00/06:56:00	07:11:00/07:16:00	07:21:00/07:26:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores		53	53	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13	13	
Stachybotrys				
Stemphylium				
Torula				
Background Particulate*	2+	1+	2+	2+
Hyphal Fragments	<13	<13	<13	<13
TOTAL**	53	67	67	53

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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Board of Equalization
450 N Street
Sacramento, California 94279

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APRIL 1, 3, and 4, 2011

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-1 TM19	21104001-1 TM20OUT		
SAMPLING LOCATION/ACTIVITIES	11 th Floor; northern hallway; about five feet north of high rise elevator lobby; approximately five feet above floor/ Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
DATE	04-04-11	04-04-11		
START/STOP	07:29:00/07:34:00	07:38:00/07:43:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria		13		
Arthrinium				
Ascospores	110	430		
Aureobasidium				
Basidiospores	370	2,100		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	750		
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless		40		
Penicillium/Aspergillus types	53	800		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula		13		
Background Particulate*	2+	3+		
Hyphal Fragments	13	67		
TOTAL**	690	4,200		

*Background Particulate is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.



EMLab P&K

Report for:

Mr. Wesley Frey, Mr. Syed Mehdi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21103001-36
EML ID: 768631

Approved by:

Lab Manager
Malcolm Moody

REVISED REPORT

Dates of Analysis:
Direct microscopic exam (Qualitative): 04-19-2011

Service SOPs: Direct microscopic exam (Qualitative) (I100005)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi, Mr. Larry
Sandhu
Re: 21103001-36

Date of Sampling: 03-30-2011
Date of Receipt: 03-31-2011
Date of Report: 04-01-2011

DIRECT MICROSCOPIC EXAMINATION REPORT
(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 3400141-2: Tape sample 21103001-36 TL01SM				
Light	Very few	4+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ <i>Acremonium</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 3400142-2: Tape sample 21103001-36 TL02SM				
Light	Very few	4+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

Mr. Wesley Frey, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21104001-1
EML ID: 768839

Approved by:

Lab Manager
Malcolm Moody

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 04-18-2011

Service SOPs: Spore trap analysis (1038)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM01OUT		21104001-1 TM02		21104001-1 TM03		21104001-1 TM04	
Comments (see below)	A		None		None		None	
Lab ID-Version‡:	3400784-2		3400785-2		3400786-2		3400787-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores*	18	960	3	160				
Aureobasidium								
Basidiospores*	313	38,000	21	1,100	3	160	4	210
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	26	470	2	110				
Curvularia								
Epicoccum	1	13						
Fusarium								
Nigrospora								
Oidium								
Other brown					1	13		
Other colorless	3	40						
Penicillium/Aspergillus types†	1	53						
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	1	13			1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	3+		1+		2+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	2,700		27		< 13		40	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		39,000		1,400		190		210

Comments: A) 23 of the raw count *Cladosporium* spores were present as a single clump.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM05		21104001-1 TM06		21104001-1 TM07		21104001-1 TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	3400788-2		3400789-2		3400790-2		3400791-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores*								
Aureobasidium								
Basidiospores*	4	210	1	53	2	110	2	110
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			2	110				
Curvularia								
Epicoccum								
Fusarium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*	1	13						
Smuts*, Periconia, Myxomycetes*							2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		27	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		230		160		110		130

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM09		21104001-1 TM10OUT	
Comments (see below)	None		None	
Lab ID-Version†:	3400792-2		3400793-2	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Ascospores*			16	850
Aureobasidium				
Basidiospores*	4	210	183	9,800
Bipolaris/Drechslera group				
Botrytis			1	13
Chaetomium				
Cladosporium	1	53	2	110
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium			7	93
Other brown				
Other colorless			2	27
Penicillium/Aspergillus types†				
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*			4	53
Stachybotrys	1	13		
Stemphylium			1	13
Torula				
Ulocladium				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	< 13		13	
Pollen/m3	< 13		2,000	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		280		11,000

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

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MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21104001-1 TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: April				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	27	230	40	7	27	230	52
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	12
Chaetomium	-	7	13	130	10	7	13	120	19
Cladosporium	470	27	300	5,100	90	53	590	7,700	96
Curvularia	-	7	13	230	7	7	13	230	7
Epicoccum	13	7	13	260	19	7	13	170	18
Nigrospora	-	7	13	93	7	7	13	200	9
Other colorless	40	7	13	320	4	7	13	120	4
Penicillium/Aspergillus types	53	13	160	1,400	69	33	210	2,400	84
Stachybotrys	-	7	13	420	3	7	13	230	4
Stemphylium	-	7	13	53	4	7	13	67	8
Torula	-	7	13	160	8	7	13	160	11
Seldom found growing indoors**									
Ascospores	960	13	110	3,400	75	13	110	2,100	70
Basidiospores	38,000	13	230	7,100	89	13	210	8,600	92
Botrytis	-	7	13	170	8	7	13	200	15
Oidium	-	7	13	270	18	7	13	200	18
Rusts	-	7	13	230	17	7	13	270	24
Smuts, Periconia, Myxomycetes	13	7	27	440	55	7	40	550	67
§ TOTAL SPORES/m3	39,000								

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MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21104001-1 TM10OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: April				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	230	40	7	27	230	52
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	12
Chaetomium	-	7	13	130	10	7	13	120	19
Cladosporium	110	27	300	5,100	90	53	590	7,700	96
Curvularia	-	7	13	230	7	7	13	230	7
Epicoccum	-	7	13	260	19	7	13	170	18
Nigrospora	-	7	13	93	7	7	13	200	9
Other colorless	27	7	13	320	4	7	13	120	4
Penicillium/Aspergillus types	-	13	160	1,400	69	33	210	2,400	84
Stachybotrys	-	7	13	420	3	7	13	230	4
Stemphylium	13	7	13	53	4	7	13	67	8
Torula	-	7	13	160	8	7	13	160	11
Seldom found growing indoors**									
Ascospores	850	13	110	3,400	75	13	110	2,100	70
Basidiospores	9,800	13	230	7,100	89	13	210	8,600	92
Botrytis	13	7	13	170	8	7	13	200	15
Oidium	93	7	13	270	18	7	13	200	18
Rusts	-	7	13	230	17	7	13	270	24
Smuts, Periconia, Myxomycetes	53	7	27	440	55	7	40	550	67
§ TOTAL SPORES/m3	11,000								

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MoldRANGE™: Extended Outdoor Comparison

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m³. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report
Outdoor Summary: 21104001-1 TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 27 - 440	49
Ascospores				960	13 - 160 - 5,200	76
Basidiospores				38,000	13 - 370 - 19,000	91
Cladosporium				470	27 - 480 - 9,700	92
Epicoccum				13	7 - 20 - 350	26
Other colorless				40	7 - 13 - 330	5
Penicillium/Aspergillus types				53	13 - 190 - 2,500	74
Smuts, Periconia, Myxomycetes				13	7 - 40 - 850	66
Total				39,493		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples
Location: 21104001-1 TM02

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.9048 Critical value: 0.6190 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.1333 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div></div>			160
Other brown		<div><div></div></div>			13
Smuts, Periconia, Myxomycetes		<div><div></div></div>			13
Total		<div><div></div></div>			187

Location: 21104001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 210
Total		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 213




Location: 21104001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.3167 Critical value: 0.5833 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div></div>			210
Rusts		<div><div></div></div>			13
Total		<div><div></div></div>			227



Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011




MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.6845 Critical value: 0.6190 Outside Similar: Yes	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				53
Cladosporium				110
Total				160

Location: 21104001-1 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				110
Total				107

Location: 21104001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3988 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				110
Smuts, Periconia, Myxomycetes				27
Total				133

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.4458 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Basidiospores				210
Cladosporium				53
Stachybotrys				13
Total				280

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-1 TM10OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				850	13 - 160 - 5,200	76
Basidiospores				9,800	13 - 370 - 19,000	91
Botrytis				13	7 - 13 - 210	8
Cladosporium				110	27 - 480 - 9,700	92
Oidium				93	7 - 13 - 240	13
Other colorless				27	7 - 13 - 330	5
Penicillium/Aspergillus types				ND	13 - 190 - 2,500	74
Smuts, Periconia, Myxomycetes				53	7 - 40 - 850	66
Stemphylium				13	7 - 13 - 67	4
Total				10,920		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-1 TM02**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 12%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.8869 Critical value: 0.6190 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2542 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				160
Other brown				13
Smuts, Periconia, Myxomycetes				13
Total				187

Location: 21104001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6726 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				210
Total				213

Location: 21104001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.3042 Critical value: 0.5833 Outside Similar: No	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				210
Rusts				13
Total				227

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.6667 Critical value: 0.6190 Outside Similar: Yes	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				53
Cladosporium				110
Total				160

Location: 21104001-1 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6726 Critical value: 0.6190 Outside Similar: Yes	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				110
Total				107

Location: 21104001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.5476 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Basidiospores				110
Smuts, Periconia, Myxomycetes				27
Total				133

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 7 Result: 3.5000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.4333 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Basidiospores				210
Cladosporium				53
Stachybotrys				13
Total				280

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:
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Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report
Outdoor Sample: 21104001-1 TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	<div><div></div></div>				1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	<div><div></div></div>				26	470
Curvularia					ND	< 13
Epicoccum	<div><div></div></div>				1	13
Nigrospora					ND	< 13
Other colorless	<div><div></div></div>				3	40
Penicillium/Aspergillus types†	<div><div></div></div>				1	53
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††	<div><div></div></div>				18	960
Basidiospores††	<div><div></div></div>				313	38,000
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	<div><div></div></div>				1	13
Total						39,493

Location: 21104001-1 TM02

Education: 2110-1001-1-11102

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					2	110
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					3	160
Basidiospores††					21	1,100
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					ND	< 13
Total						1,387

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			106
			100
			100
			100
			100
			100
			100
			149
			100
			100
			100
Final MoldSCORE			106

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					3	160				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				103
Total						187				
							Final MoldSCORE		108	

Location: 21104001-1 TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						213				
							Final MoldSCORE		100	

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Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						227				
							Final MoldSCORE		100	

Location: 21104001-1 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	110				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						160				
							Final MoldSCORE		107	

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						107				
							Final MoldSCORE		100	

Location: 21104001-1 TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					2	27				105
Total						133				
							Final MoldSCORE		105	

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					1	13				121
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						280				Final MoldSCORE 121

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paeclomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

Outdoor Sample: 21104001-1 TM10OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	■				2	110
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other colorless	■				2	27
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Stemphylium	■				1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††	■	■	■	■	16	850
Basidiospores††	■	■	■	■	183	9,800
Botrytis	■				1	13
Oidium	■				7	93
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	■				4	53
Total						10,920

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					2	110
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					3	160
Basidiospores††					21	1,100
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					ND	< 13
Total						1,387

MoldSCORE [†]										Score
100		200				300				
										100
										100
										100
										106
										100
										100
										100
										100
										100
										121
										100
										100
										100
Final MoldSCORE										106

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					3	160				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				102
Total						187				Final MoldSCORE 108

Location: 21104001-1 TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						213				Final MoldSCORE 102

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				101
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						227				
							Final MoldSCORE		101	

Location: 21104001-1 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	110				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						160				
							Final MoldSCORE		107	

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						107	Final MoldSCORE			101

Location: 21104001-1 TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					2	27				105
Total						133	Final MoldSCORE			105

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-01-2011
Date of Report: 04-01-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					1	13				121
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					4	210				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						280				Final MoldSCORE 121

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Wesley Frey, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21104001-1
EML ID: 769199

Approved by:

Lab Manager
Malcolm Moody

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 04-07-2011

Service SOPs: Spore trap analysis (1038)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM101OUT		21104001-1 TM102	
Comments (see below)	None		None	
Lab ID-Version‡:	3402940-2		3402941-2	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27		
Arthrimum				
Ascospores*	6	320		
Aureobasidium				
Basidiospores*	72	3,800	2	110
Bipolaris/Drechslera group	1	13		
Botrytis	4	53		
Chaetomium				
Cladosporium	15	800		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown	3	40		
Other colorless	1	13		
Penicillium/Aspergillus types†	7	370		
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*	1	13		
Stachybotrys				
Stemphylium				
Torula				
Background debris (1-4+)††	3+		1+	
Hyphal fragments/m3	93		< 13	
Pollen/m3	3,900		40	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		5,500		110

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21104001-1 TM101OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: April				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	27	7	27	230	40	7	27	230	52
Bipolaris/Drechslera group	13	7	13	140	11	7	13	130	12
Chaetomium	-	7	13	130	10	7	13	120	19
Cladosporium	800	27	300	5,100	90	53	590	7,700	96
Curvularia	-	7	13	230	7	7	13	230	7
Nigrospora	-	7	13	93	7	7	13	200	9
Other brown	40	7	13	110	26	7	13	93	32
Other colorless	13	7	13	320	4	7	13	120	4
Penicillium/Aspergillus types	370	13	160	1,400	69	33	210	2,400	84
Stachybotrys	-	7	13	420	3	7	13	230	4
Torula	-	7	13	160	8	7	13	160	11
Seldom found growing indoors**									
Ascospores	320	13	110	3,400	75	13	110	2,100	70
Basidiospores	3,800	13	230	7,100	89	13	210	8,600	92
Botrytis	53	7	13	170	8	7	13	200	15
Rusts	-	7	13	230	17	7	13	270	24
Smuts, Periconia, Myxomycetes	13	7	27	440	55	7	40	550	67
§ TOTAL SPORES/m3	5,500								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K, LLC

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-1 TM101OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 27 - 440	49
Ascospores				320	13 - 160 - 5,200	76
Basidiospores				3,800	13 - 370 - 19,000	91
Bipolaris/Drechslera group				13	7 - 13 - 230	17
Botrytis				53	7 - 13 - 210	8
Cladosporium				800	27 - 480 - 9,700	92
Other brown				40	7 - 13 - 110	28
Other colorless				13	7 - 13 - 330	5
Penicillium/Aspergillus types				370	13 - 190 - 2,500	74
Smuts, Periconia, Myxomycetes				13	7 - 40 - 850	66
Total				5,493		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-1 TM102**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.1818	dF: 10 Result: 0.6485 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

Outdoor Sample: 21104001-1 TM101OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	■	■	■	■	2	27
Bipolaris/Drechslera group	■				1	13
Chaetomium					ND	< 13
Cladosporium	■	■	■	■	15	800
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown	■	■			3	40
Other colorless	■				1	13
Penicillium/Aspergillus types†	■	■	■		7	370
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††	■	■	■	■	6	320
Basidiospores††	■	■	■	■	72	3,800
Botrytis	■	■			4	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	■	■			1	13
Total						5,493

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					2	110
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					ND	< 13
Total						107

MoldSCORE [‡]		
100	200	300 Score
		100
		100
		100
		100
		100
		100
		100
		100
		100
		100
		104
		100
		100
Final MoldSCORE		104

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-01-2011
Date of Receipt: 04-02-2011
Date of Report: 04-03-2011

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Wesley Frey, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21104001-1
 EML ID: 769294

Approved by:

Lab Manager
Malcolm Moody

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 04-18-2011

Service SOPs: Spore trap analysis (1038)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM11OUT		21104001-1 TM12		21104001-1 TM13		21104001-1 TM14	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	3403439-2		3403440-2		3403441-2		3403442-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Arthrini								
Ascospores*								
Basidiospores*	4	210	1	53				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53			1	53	1	53
Curvularia								
Epicoccum								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*					1	13		
Smuts*, Periconia, Myxomycetes*	1	13						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		1+		1+	
Hyphal fragments/m3	40		< 13		13		< 13	
Pollen/m3	370		27		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		290		53		67		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM15		21104001-1 TM16		21104001-1 TM17		21104001-1 TM18	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	3403443-2		3403444-2		3403445-2		3403446-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Basidiospores*			1	53	1	53	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53						
Curvularia								
Epicoccum								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*			1	13	1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		53		67		67		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-1 TM19		21104001-1 TM20OUT	
Comments (see below)	None		None	
Lab ID-Version†:	3403447-2		3403448-2	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13
Arthrinium				
Ascospores*	2	110	8	430
Basidiospores*	7	370	40	2,100
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	3	160	14	750
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Other colorless			3	40
Penicillium/Aspergillus types†	1	53	15	800
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*			1	13
Stachybotrys				
Stemphylium				
Torula			1	13
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		3+	
Hyphal fragments/m3	13		67	
Pollen/m3	40		1,000	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		690		4,200

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21104001-1 TM11OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: April				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	27	230	40	7	27	230	52
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	12
Chaetomium	-	7	13	130	10	7	13	120	19
Cladosporium	53	27	300	5,100	90	53	590	7,700	96
Curvularia	-	7	13	230	7	7	13	230	7
Nigrospora	-	7	13	93	7	7	13	200	9
Other colorless	-	7	13	320	4	7	13	120	4
Penicillium/Aspergillus types	-	13	160	1,400	69	33	210	2,400	84
Stachybotrys	-	7	13	420	3	7	13	230	4
Torula	-	7	13	160	8	7	13	160	11
Seldom found growing indoors**									
Ascospores	-	13	110	3,400	75	13	110	2,100	70
Basidiospores	210	13	230	7,100	89	13	210	8,600	92
Rusts	-	7	13	230	17	7	13	270	24
Smuts, Periconia, Myxomycetes	13	7	27	440	55	7	40	550	67
§ TOTAL SPORES/m3	290								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21104001-1 TM20OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: April				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	27	230	40	7	27	230	52
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	12
Chaetomium	-	7	13	130	10	7	13	120	19
Cladosporium	750	27	300	5,100	90	53	590	7,700	96
Curvularia	-	7	13	230	7	7	13	230	7
Nigrospora	-	7	13	93	7	7	13	200	9
Other colorless	40	7	13	320	4	7	13	120	4
Penicillium/Aspergillus types	800	13	160	1,400	69	33	210	2,400	84
Stachybotrys	-	7	13	420	3	7	13	230	4
Torula	13	7	13	160	8	7	13	160	11
Seldom found growing indoors**									
Ascospores	430	13	110	3,400	75	13	110	2,100	70
Basidiospores	2,100	13	230	7,100	89	13	210	8,600	92
Rusts	-	7	13	230	17	7	13	270	24
Smuts, Periconia, Myxomycetes	13	7	27	440	55	7	40	550	67
§ TOTAL SPORES/m3	4,200								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-1 TM11OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 440	49
Ascospores					13 - 160 - 5,200	76
Basidiospores					13 - 370 - 19,000	91
Cladosporium					27 - 480 - 9,700	92
Penicillium/Aspergillus types					13 - 190 - 2,500	74
Smuts, Periconia, Myxomycetes					7 - 40 - 850	66
Total						

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-1 TM12**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.8500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Total		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>



Location: 21104001-1 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0250 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 53
Rusts		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 13
Total		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 67



Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011




MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 18%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.4500 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				53
				53

Location: 21104001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 18%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.4500 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				53
				53

Location: 21104001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 22%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.5500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				
Smuts, Periconia, Myxomycetes				
Total				
				53
				13
				67

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 22%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.5500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				53
Smuts, Periconia, Myxomycetes				13
Total				67

Location: 21104001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 18%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.8500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				53
Total				53

Location: 21104001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 239%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5286 Critical value: 0.7714 Outside Similar: No	Score: 136 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Ascospores				110
Basidiospores				370
Cladosporium				160
Penicillium/Aspergillus types				53
Total				693

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report
Outdoor Summary: 21104001-1 TM20OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 440	49
Ascospores					13 - 160 - 5,200	76
Basidiospores					13 - 370 - 19,000	91
Cladosporium					27 - 480 - 9,700	92
Other colorless					7 - 13 - 330	5
Penicillium/Aspergillus types					13 - 190 - 2,500	74
Smuts, Periconia, Myxomycetes					7 - 40 - 850	66
Torula					7 - 13 - 170	10
Total						

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.




Indoor Samples
Location: 21104001-1 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011



MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.1500 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Rusts				13
Total				67

Location: 21104001-1 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5000 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

Location: 21104001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5000 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location: 21104001-1 TM16**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3988 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				53
Smuts, Periconia, Myxomycetes				13
Total				67

Location: 21104001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3988 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				53
Smuts, Periconia, Myxomycetes				13
Total				67

Location: 21104001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores				53
Total				53

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 16%	dF: 7 Result: 5.7222 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 8 Result: 0.8929 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Ascospores				110
Basidiospores				370
Cladosporium				160
Penicillium/Aspergillus types				53
Total				693

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

Outdoor Sample: 21104001-1 TM11OUT

Fungi Identified	Outdoor sample spores/m ³				Raw count	Spores/m ³
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	█	█	█	█	1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█	█	█	█	1	53
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††	█	█	█	█	ND	< 13
Basidiospores††	█	█	█	█	4	210
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	█	█	█	█	1	13
Total						293

Fungi Identified	Indoor sample spores/m ³				Raw count	Spores/m ³
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					1	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					ND	< 13
Total						53

MoldSCORE [†]		
100	200	300 Score
		100
		100
		100
		100
		100
		100
		100
		100
		100
		105
		100
		100
Final MoldSCORE		105

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						67	Final MoldSCORE			103

Location: 21104001-1 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE			103

Location: 21104001-1 TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				103
Total						67	Final MoldSCORE			105

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				103
Total						67	Final MoldSCORE			105

Location: 21104001-1 TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE			105

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report
Location: 21104001-1 TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡				
	<100	1K	10K	>100K			100	200	300	Score	
Generally able to grow indoors*											
Alternaria					ND	< 13				100	
Bipolaris/Drechslera group					ND	< 13				100	
Chaetomium					ND	< 13				100	
Cladosporium					3	160				110	
Curvularia					ND	< 13				100	
Nigrospora					ND	< 13				100	
Penicillium/Aspergillus types†					1	53				108	
Stachybotrys					ND	< 13				100	
Torula					ND	< 13				100	
Seldom found growing indoors**											
Ascospores††					2	110				143	
Basidiospores††					7	370				136	
Rusts					ND	< 13				100	
Smuts, Periconia, Myxomycetes††					ND	< 13				100	
Total						693	Final MoldSCORE				136

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

Outdoor Sample: 21104001-1 TM20OUT

MoldSCORE [†]		
100	200	300 Score
		100
		100
		100
		100
		100
		100
		100
		100
		100
		103
		100
		100
Final MoldSCORE		103

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						67				
							Final MoldSCORE		103	

Location: 21104001-1 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53				
							Final MoldSCORE		103	

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE			103

Location: 21104001-1 TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				103
Total						67	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-1 TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					1	13				103
Total						67				
							Final MoldSCORE		103	

Location: 21104001-1 TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					1	53				103
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53				
							Final MoldSCORE		103	

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21104001-1

Date of Sampling: 04-03-2011
Date of Receipt: 04-04-2011
Date of Report: 04-04-2011

MoldSCORE™: Spore Trap Report
Location: 21104001-1 TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					3	160				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					2	110				116
Basidiospores††					7	370				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						693				Final MoldSCORE 102

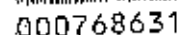
*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hvpienetech.com

Request For Analysis

Lab Destination: EM LAB DESK Lab Contact: SAMPLE RECEIVING

[illegible]

Special Instructions: M FLOOR SUPPLY FROM ROOM 354 cleanup.

1. Sampled by: Person 03/31/11 @ 22:20 Received by: C. Schatz 3/31/11 4:50p

2. Relinquished by: James 03/31/11 @ 17:00 Received by: _____

3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:



3625 L 000768839

www.hygienetech.com



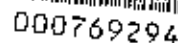
362

Torrance, California 90505-1443
(310) 370-8370
(310) 370-2474 FAX
www.livgenetech.com

Request For Analysis



Hygiene Technologies International, Inc.



31

180

143

(S10) 370.8370

(310) 370-2474 FAX

www.hygiene-tech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21104001-

Date Submitted: 4/3/11

Project Contact: L. Samaluk / W. Gray

Turnaround Required: 2-3 days

Lab Destination: EM LAB

Lab Contact: Samuel Receiving

[illegible]

Special Instructions: Building wide Random

1. Sampled by: Hansler on 4/3/11 @ 4:41/11 Received by: Kew TSE 4/4/11 8:16 AM
2. Relinquished by: Hansler on 4/4/11 @ 8:14 Received by: C. Schatz 4/4/11 8:40 AM
3. Relinquished by: _____ Received by: _____
Please include signature, date, and time

Lab Use Only: